INTERNATIONAL SEARCH REPORT

ational Application No PCT/EP2004/010976

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J8/02 B01J19/24 F28D9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J F28D F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	ENTS CONSIDERED TO BE RELEVANT Citation of document with indicates when the second se	
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 943 669 A (DANG VU QUANG ET AL) 24 July 1990 (1990-07-24) abstract column 6, line 38 - line 57; figures 2a-2c	1-10
X	US 4 985 208 A (FUJITA TOSHIO ET AL) 15 January 1991 (1991-01-15) abstract column 4, line 51 - line 65; figure 3	1-10
X	WO 01/51200 A (BASF AG; HECHLER CLAUS (DE); KAMMEL ULRICH (DE); MACHHAMMER OTTO (DE)) 19 July 2001 (2001-07-19) abstract page 7, line 7 - line 23; figure 1B	1-10

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
4 January 2005	Date of mailing of the international search report 24/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Thomasson, P

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A	abstract column 1, line 20 - line 35	1-5	
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A	abstract page 1, line 1 - line 20 page 6, line 1 - line 8 claim 1; figures 8-11	1-5	
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